

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
DSM Nutritional Products, LLC

AUTHORIZING THE OPERATION OF  
Beta Carotene Production Unit  
Pharmaceutical and Medicine Manufacturing

LOCATED AT  
Brazoria County, Texas  
Latitude 29° 0' 43" Longitude 95° 22' 2"  
Regulated Entity Number: RN101190221

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: 03943 Issuance Date: \_\_\_\_\_

\_\_\_\_\_  
For the Commission

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## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions:**

### **Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
  - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart VVVVVV as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1495 which incorporates the 40 CFR Part 63 Subpart by reference.
  - F. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
    - (i) Title 30 TAC § 101.352 (relating to General Provisions)
    - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
    - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
    - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
    - (v) Title 30 TAC § 101.358 (relating to Emission Monitoring and Compliance Demonstration)
    - (vi) Title 30 TAC § 101.359 (relating to Reporting)
    - (vii) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
    - (viii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

- A. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
  - (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
    - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
    - (2) Records of all observations shall be maintained.
    - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
    - (4) Compliance Certification:
      - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
      - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later

than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- B. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- C. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
- 5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:
  - A. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)
  - B. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
- 6. The permit holder shall comply with the following requirements of 30 TAC Chapter 117:
  - A. For boilers, process heaters, and stationary reciprocating engines subject to Subchapter D, Division 1 at minor sources of  $\text{NO}_x$ :
    - (i) Title 30 TAC § 117.2010(a), and (c) - (i) (relating to Emission Specifications), for sources subject to mass emissions cap and trade under 30 TAC Chapter 101, Subchapter H
    - (ii) Title 30 TAC § 117.2030 (relating to Operating Requirements)
    - (iii) Title 30 TAC § 117.2035 (relating to Monitoring and Testing Requirements)
    - (iv) Title 30 TAC § 117.2045 (relating to Recordkeeping and Reporting Requirements)

- (v) Title 30 TAC § 117.9200 (relating to Compliance Schedule)
  - B. For boilers, process heaters, and stationary reciprocating engines exempt from Subchapter D, Division 1 at minor sources of NO<sub>x</sub> under 30 TAC § 117.2003(a), the permit holder shall comply with 30 TAC §§ 117.2030(c), 117.2035(g), 117.2045(b) and 117.2045(c).
7. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
8. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
9. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):
- A. Title 40 CFR § 63.11111(e), for records of monthly throughput
  - B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput
  - C. Title 40 CFR § 63.11111(j), for dispensing from fixed tank into portable tank for on-site delivery
  - D. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput
  - E. Title 40 CFR § 63.11115(a), for operation of the source
  - F. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices
  - G. Title 40 CFR § 63.11116(b), for records availability
  - H. Title 40 CFR § 63.11116(d), for portable gasoline containers

### **Additional Monitoring Requirements**

10. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

### **New Source Review Authorization Requirements**

11. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
  - A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
12. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
13. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

### **Compliance Requirements**

14. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.



15. Use of Emission Credits to comply with applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) Offsets for Title 30 TAC Chapter 116
  - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
    - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
    - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
    - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
16. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
    - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
    - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

### **Risk Management Plan**

- 17. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

### **Permit Location**

- 18. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

### **Permit Shield (30 TAC § 122.148)**

- 19. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

### **Applicable Requirements Summary**

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
B-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
B-1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
BASINS	WASTEWATER UNITS	N/A	R5140-2	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
FLAREA	FLARES	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FLAREA	FLARES	N/A	63A-1	40 CFR Part 63, Subpart A	No changing attributes.
FLAREA	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV-1	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FLAREC	FLARES	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FUG-BC	FUGITIVE EMISSION UNITS	N/A	63VVVVVV-1	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
GRP-TANKS2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	T9101, T9102	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-TANKS2	STORAGE TANKS/VESSELS	T9101, T9102	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-TANKS4	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	T9110, T-9111	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-TANKS5	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	T9104, T9108, T9112, T9113	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-WWTKS	WASTEWATER UNITS	T-9001, T-9114	R5140-2	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
GRP-WWTKS	TREATMENT PROCESS	T-9001, T-9114	63VVVVVV-1	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
LOAD	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	True Vapor Pressure = True vapor pressure less than 0.5 psia.
LOAD	LOADING/UNLOADING OPERATIONS	N/A	R5211-2	30 TAC Chapter 115, Loading and Unloading of VOC	True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Loading less than 20,000 gallons per day.
NON-BC	PHARMACEUTICAL MANUFACTURING FACILITY	N/A	R5511-1	30 TAC Chapter 115, Phar. Man. Facilities	Storage Tank VOC Vapor Pressure Exemption = The process contains only storage tanks containing VOC with a vapor pressure greater than 1.5 psia (10.3 kilopascals) at 68°F (20°C) or are not claiming the exemption.
NON-BC	PHARMACEUTICAL MANUFACTURING FACILITY	N/A	R5511-2	30 TAC Chapter 115, Phar. Man. Facilities	Storage Tank VOC Vapor Pressure Exemption = The process contains storage tanks containing VOC with a vapor pressure less than or equal to 1.5 psia (10.3 kilopascals) at 68°F (20°C).
PROBC	PHARMACEUTICAL MANUFACTURING FACILITY	N/A	R5511-1	30 TAC Chapter 115, Phar. Man. Facilities	No changing attributes.
PROBC	CHEMICAL MANUFACTURING PROCESS	N/A	63VVVVVV-1	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
T9100	EMISSION	N/A	R1111-2	30 TAC Chapter 111, Visible	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS			Emissions	
T9100	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T9103	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
T9103	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T9105	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
T9105	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T9106	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
T9106	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T9107	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
T9107	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
UNLOAD	LOADING/UNLOADING OPERATIONS	N/A	R5211-3	30 TAC Chapter 115, Loading and Unloading of VOC	True Vapor Pressure = True vapor pressure less than 0.5 psia.
UNLOAD	LOADING/UNLOADING OPERATIONS	N/A	R5211-4	30 TAC Chapter 115, Loading and Unloading of	True Vapor Pressure = True vapor pressure greater than or equal to 0.5

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
				VOC	psia., Daily Throughput = Loading less than 20,000 gallons per day.
WWTP-01	WASTEWATER UNITS	N/A	R5140-1	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
B-1	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
B-1	EU	60Dc-1	SO <sub>2</sub>	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
B-1	EU	60Dc-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
B-1	EU	60Dc-1	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
BASINS	EU	R5140-2	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C)	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145	[G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148		§ 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	§ 115.146(4)	
FLAREA	CD	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
FLAREA	CD	63A-1	112(B) HAPS	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
FLAREA	EU	63VVVVVV-1	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FLAREC	CD	R1111-2	Opacity	30 TAC Chapter	§ 111.111(a)(4)(A)	Visible emissions from a	§ 111.111(a)(4)(A)(i)	§ 111.111(a)(4)(A)(ii)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				111, Visible Emissions		process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(ii)		
FUG-BC	EU	63VVVVVV-1	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
GRP-TANKS2	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-TANKS2	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	[G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(a)(5) § 115.118(a)(7)	None
GRP-TANKS4	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						compliance.			
GRP-TANKS5	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
GRP-WWTKS	EU	R5140-2	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-WWTKS	EU	63VVVVVV-1	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
LOAD	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
LOAD	EU	R5211-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(2)(A) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Any plant, excluding gasoline bulk plants, which loads less than 20,000 gpd of VOC with a true vapor pressure of 0.5 psia or greater is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D)	None
NON-BC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.531(a)(1) § 115.532(a)(2) § 115.532(a)(3)(A)	The emission of VOC from specified sources shall be controlled by means of surface condensers from which the condenser outlet gas temperature must not exceed the specified limits.	[G]§ 115.535(a) § 115.536(a)(1) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(1) § 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-1	VOC	30 TAC Chapter	§ 115.532(a)(4)	Air dryers, production	[G]§ 115.535(a)	§ 115.536(a)(4)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				115, Phar. Man. Facilities	§ 115.532(a)(3)(A)	exhaust systems, and loading facilities affected by §115.531(a) shall be controlled by a system with a reduction efficiency of at least 90% of the uncontrolled emissions.	§ 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(5)	
NON-BC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.531(a)(3) § 115.532(a)(1)(B) § 115.532(a)(3)(A) § 115.532(a)(3)(B) § 115.532(a)(4)	Loading Facilities. VOC emissions from truck or railcar deliveries to storage tanks at loading facilities shall be controlled in accordance with §115.532(a)(4) of this title.	§ 115.534(a)(1) § 115.534(a)(2) [G]§ 115.535(a) [G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.537(a)(2) § 115.532(a)(1)(B) § 115.532(a)(3)(A) § 115.532(a)(3)(B) [G]§ 115.532(a)(5)	Storage tanks at loading facilities that store VOC with vapor pressures less than or equal to 4.1 psia (28 kPa) at 68 F (20 C) are exempt from the requirements of §115.531(a)(3) of this title.	§ 115.534(a)(1) § 115.534(a)(2) [G]§ 115.535(a) [G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	[G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(1)(A) § 115.532(a)(3)(A)	All in-process tanks that contain VOC at any time shall be kept covered, except when production, sampling, maintenance, or inspection procedures require operator access.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(1)(B) § 115.532(a)(3)(A)	All storage tanks that store VOC shall have pressure vacuum conservation vents installed which are set at +0.8 inches of water (+0.2 kPa), unless a more effective control system is	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						used.			
NON-BC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(2) § 115.532(a)(3)(A)	Centrifuges and Filters. Centrifuges, rotary vacuum filters, and other filters having an exposed liquid surface which process liquids containing VOC shall be enclosed.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.536(a)(2)(A)	Install and maintain a CMS to measure and record necessary control device operational parameters to ensure proper functioning of those devices in accordance with design specifications, including:	§ 115.536(a)(2)(A) § 115.536(a)(2)(A)(iv) § 115.536(a)(2)(B)	§ 115.536(a)(2)(A) § 115.536(a)(2)(A)(iv) § 115.536(a)(2)(B)	None
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.531(a)(1) § 115.532(a)(2) § 115.532(a)(3)(A)	The emission of VOC from specified sources shall be controlled by means of surface condensers from which the condenser outlet gas temperature must not exceed the specified limits.	[G]§ 115.535(a) § 115.536(a)(1) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(1) § 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(4) § 115.532(a)(3)(A)	Air dryers, production exhaust systems, and loading facilities affected by §115.531(a) shall be controlled by a system with a reduction efficiency of at least 90% of the uncontrolled emissions.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.531(a)(3) § 115.532(a)(1)(B) § 115.532(a)(3)(A)	Loading Facilities. VOC emissions from truck or railcar deliveries to	§ 115.534(a)(1) § 115.534(a)(2) [G]§ 115.535(a)	§ 115.536(a)(4) § 115.536(a)(5)	None



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.532(a)(3)(B) § 115.532(a)(4)	storage tanks at loading facilities shall be controlled in accordance with §115.532(a)(4) of this title.	[G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)		
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.537(a)(2) § 115.532(a)(1)(B) § 115.532(a)(3)(A) § 115.532(a)(3)(B) [G]§ 115.532(a)(5)	Storage tanks at loading facilities that store VOC with vapor pressures less than or equal to 4.1 psia (28 kPa) at 68 F (20 C) are exempt from the requirements of §115.531(a)(3) of this title.	§ 115.534(a)(1) § 115.534(a)(2) [G]§ 115.535(a) [G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	[G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(1)(A) § 115.532(a)(3)(A)	All in-process tanks that contain VOC at any time shall be kept covered, except when production, sampling, maintenance, or inspection procedures require operator access.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.537(a)(3) § 115.532(a)(3)(A) [G]§ 115.532(a)(5)	Storage tanks containing VOC with vapor pressures less than or equal to 1.5 psia (10.3 kPa) at 68 F (20 C) are exempt from the requirements of §115.532(a)(1)(B) of this title.	[G]§ 115.535(a) [G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	[G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(1)(B) § 115.532(a)(3)(A)	All storage tanks that store VOC shall have pressure vacuum conservation vents installed which are set at +0.8 inches of water (+0.2 kPa), unless a more effective control system is used.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(2) § 115.532(a)(3)(A)	Centrifuges and Filters. Centrifuges, rotary vacuum filters, and other filters having an exposed liquid surface which process liquids containing VOC shall be enclosed.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
NON-BC	PRO	R5511-2	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.536(a)(2)(A)	Install and maintain a CMS to measure and record necessary control device operational parameters to ensure proper functioning of those devices in accordance with design specifications, including:	§ 115.536(a)(2)(A) § 115.536(a)(2)(A)(iv) § 115.536(a)(2)(B)	§ 115.536(a)(2)(A) § 115.536(a)(2)(A)(iv) § 115.536(a)(2)(B)	None
PROBC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.531(a)(1) § 115.532(a)(2) § 115.532(a)(3)(A)	The emission of VOC from specified sources shall be controlled by means of surface condensers from which the condenser outlet gas temperature must not exceed the specified limits.	[G]§ 115.535(a) § 115.536(a)(1) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(1) § 115.536(a)(4) § 115.536(a)(5)	None
PROBC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(4) § 115.532(a)(3)(A)	Air dryers, production exhaust systems, and loading facilities affected by §115.531(a) shall be controlled by a system with a reduction efficiency of at least 90% of the uncontrolled emissions.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
PROBC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.531(a)(3) § 115.532(a)(1)(B) § 115.532(a)(3)(A) § 115.532(a)(3)(B) § 115.532(a)(4)	Loading Facilities. VOC emissions from truck or railcar deliveries to storage tanks at loading facilities shall be	§ 115.534(a)(1) § 115.534(a)(2) [G]§ 115.535(a) [G]§ 115.536(a)(3) § 115.536(a)(4)	§ 115.536(a)(4) § 115.536(a)(5)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						controlled in accordance with §115.532(a)(4) of this title.	§ 115.536(a)(5)		
PROBC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.537(a)(2) § 115.532(a)(1)(B) § 115.532(a)(3)(A) § 115.532(a)(3)(B) [G]§ 115.532(a)(5)	Storage tanks at loading facilities that store VOC with vapor pressures less than or equal to 4.1 psia (28 kPa) at 68 F (20 C) are exempt from the requirements of §115.531(a)(3) of this title.	§ 115.534(a)(1) § 115.534(a)(2) [G]§ 115.535(a) [G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	[G]§ 115.536(a)(3) § 115.536(a)(4) § 115.536(a)(5)	None
PROBC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(1)(A) § 115.532(a)(3)(A)	All in-process tanks that contain VOC at any time shall be kept covered, except when production, sampling, maintenance, or inspection procedures require operator access.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
PROBC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(1)(B) § 115.532(a)(3)(A)	All storage tanks that store VOC shall have pressure vacuum conservation vents installed which are set at +0.8 inches of water (+0.2 kPa), unless a more effective control system is used.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
PROBC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.532(a)(2) § 115.532(a)(3)(A)	Centrifuges and Filters. Centrifuges, rotary vacuum filters, and other filters having an exposed liquid surface which process liquids containing VOC shall be enclosed.	[G]§ 115.535(a) § 115.536(a)(4) § 115.536(a)(5)	§ 115.536(a)(4) § 115.536(a)(5)	None
PROBC	PRO	R5511-1	VOC	30 TAC Chapter 115, Phar. Man. Facilities	§ 115.536(a)(2)(A)	Install and maintain a CMS to measure and record necessary control	§ 115.536(a)(2)(A) § 115.536(a)(2)(A)(iv) § 115.536(a)(2)(B)	§ 115.536(a)(2)(A) § 115.536(a)(2)(A)(iv) § 115.536(a)(2)(B)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						device operational parameters to ensure proper functioning of those devices in accordance with design specifications, including:			
PROBC	EU	63VVVVVV-1	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
T9100	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
T9100	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T9103	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
T9103	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T9105	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Emissions		exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
T9105	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T9106	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
T9106	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T9107	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						required to demonstrate compliance.			
T9107	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
UNLOAD	EU	R5211-3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
UNLOAD	EU	R5211-4	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(2)(A) § 115.212(a)(2) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Any plant, excluding gasoline bulk plants, which loads less than 20,000 gpd of VOC with a true vapor pressure of 0.5 psia or greater is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
WWTP-01	EU	R5140-1	VOC	30 TAC Chapter 115, Industrial Wastewater	[G]§ 115.142(3) § 115.142 [G]§ 115.148	In the Beaumont/Port Arthur area, and after December 31, 2002 in the Houston/Galveston area, each properly operated biotreatment unit shall meet the specified requirements. §§115.142(3)(A)-(B)	§ 115.144(4) § 115.144(4)(A) § 115.144(4)(B) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5)	§ 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148		

**Additional Monitoring Requirements**

**Periodic Monitoring Summary ..... 33**

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: B-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually or at any time an alternate fuel is used	
Averaging Period: n/a	
<p>Deviation Limit: If an alternate fuel is fired, either alone or in combination with the specified gas, for a period <math>\geq</math> to 24 consecutive hours, it shall be considered and reported as a deviation or the permit holder shall conduct visible emissions observation.</p> <p>Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-TANKS2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-1
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: n/a	
Deviation Limit: Inspect to determine structural integrity of fill pipe each time the vessel is emptied and degassed. If structural integrity is in question, repair before vessel is refilled. It is a deviation if repairs are not completed prior to refilling vessel.	
Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-TANKS2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-1
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Record of Tank Construction Specifications	
Minimum Frequency: n/a	
Averaging Period: n/a	
Deviation Limit: Keep specs showing fill pipe from top of tank has a max clearance of 6" from bottom or, if loaded from the side, a discharge opening entirely submerged when pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.	
Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.	

**Permit Shield**

**Permit Shield ..... 37**

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
A-9000	N/A	30 TAC Chapter 115, Industrial Wastewater	This sump does not receive VOC wastewater as defined in §115.140 and only receives water and maintenance wastewater exempted per Air Rule interpretation R5-140.005.
FUG-BC	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	This facility does not perform any of the Chapter 115, Subchapter D applicable activities.
FUGNONBC	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	This facility does not perform any of the Chapter 115, Subchapter D applicable activities.
FUGNONBC	N/A	40 CFR Part 63, Subpart VVVVVV	This unit is not a CMPU that meets the MACT VVVVVV applicability requirements as outlined in §63.11494.
GRP-TANKS4	T9110, T-9111	30 TAC Chapter 115, Storage of VOCs	These tanks do not contain volatile organic compounds and thus are not covered by Chapter 115, Subchapter B, Division 1 requirements.
GRP-TANKS4	T9110, T-9111	40 CFR Part 60, Subpart Kb	These storage vessels store non-VOC compounds, and NSPS Kb regulates volatile organic liquids.
GRP-TANKS5	T9104, T9108, T9112, T9113	30 TAC Chapter 115, Storage of VOCs	These tanks do not contain volatile organic compounds and thus are not covered by Chapter 115, Subchapter B, Division 1 requirements.
GRP-TANKS5	T9104, T9108, T9112, T9113	40 CFR Part 60, Subpart Kb	These storage vessels store non-VOC compounds, and NSPS Kb regulates volatile organic liquids.

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
T9100	N/A	40 CFR Part 60, Subpart Kb	This tank capacity is greater than or equal to 19,800 gallons but less than 39,900 gallons and stores Beta Ionone, which has a true Vapor Pressure of less than 0.0002 psia at 100F.



**New Source Review Authorization References**

<b>New Source Review Authorization References .....</b>	<b>40</b>
<b>New Source Review Authorization References by Emission Unit .....</b>	<b>41</b>

### **New Source Review Authorization References**

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 19797	Issuance Date: 11/10/2014
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
A-9000	WASTEWATER SUMP	19797
B-1	PLANT BOILER	19797
BASINS	EQUILIZATION BASINS FOR WASTEWATER TREATMENT PLANT	19797
FLAREA	MAIN FLARE	19797
FLAREC	ACETYLENE FLARE	19797
FUG-BC	BETA CAROTENE PROCESS FUGITIVES	19797
FUGNONBC	NON-BETA CAROTENE FUGITIVES	19797
LOAD	VOC LIQUID LOADING FACILITIES.	19797
NON-BC	NON-BETA CAROTENE UNITS	19797
PROBC	BETA CAROTENE PROCESS UNITS	19797
T-9001	WASTEWATER TANK	19797
T9100	BETA IONONE TANK	19797
T9101	HEXANE TANK	19797
T9102	METHANOL TANK	19797
T9103	ACETIC ACID TANK	19797
T9104	POTASSIUM HYDROXIDE TANK	19797
T9105	PHOSPHOROUS WASTE TANK	19797
T9106	SOLVENT TANK	19797
T9107	TOLUENE TANK	19797
T9108	HYDROGEN CHLORIDE TANK	19797
T9110	METHYLENE DICHLORIDE TANK	19797

### **New Source Review Authorization References by Emissions Unit**

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Unit/Group/Process ID No.</b>	<b>Emission Unit Name/Description</b>	<b>New Source Review Authorization</b>
T-9111	ACETONE TANK	106.478/09/04/2000
T9112	SULFURIC ACID TANK	19797
T9113	SODIUM HYDROXIDE TANK	19797
T-9114	WASTEWATER TANK	19797
UNLOAD	VOC LIQUID UNLOADING FACILITIES	19797
WWTP-01	WASTEWATER TREATMENT PLANT	19797

**Appendix A**

**Acronym List ..... 44**

## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM .....	actual cubic feet per minute
AMOC .....	alternate means of control
ARP .....	Acid Rain Program
ASTM .....	American Society of Testing and Materials
B/PA .....	Beaumont/Port Arthur (nonattainment area)
CAM .....	Compliance Assurance Monitoring
CD .....	control device
CEMS .....	continuous emissions monitoring system
CFR .....	Code of Federal Regulations
COMS .....	continuous opacity monitoring system
CVS .....	closed vent system
D/FW .....	Dallas/Fort Worth (nonattainment area)
EP .....	emission point
EPA .....	U.S. Environmental Protection Agency
EU .....	emission unit
FCAA Amendments .....	Federal Clean Air Act Amendments
FOP .....	federal operating permit
gr/100 scf .....	grains per 100 standard cubic feet
HAP .....	hazardous air pollutant
H/G/B .....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S .....	hydrogen sulfide
ID No. ....	identification number
lb/hr .....	pound(s) per hour
MACT .....	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr .....	Million British thermal units per hour
NA .....	nonattainment
N/A .....	not applicable
NADB .....	National Allowance Data Base
NESHAP .....	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO <sub>x</sub> .....	nitrogen oxides
NSPS .....	New Source Performance Standard (40 CFR Part 60)
NSR .....	New Source Review
ORIS .....	Office of Regulatory Information Systems
Pb .....	lead
PBR .....	Permit By Rule
PEMS .....	predictive emissions monitoring system
PM .....	particulate matter
ppmv .....	parts per million by volume
PRO .....	process unit
PSD .....	prevention of significant deterioration
psia .....	pounds per square inch absolute
SIP .....	state implementation plan
SO <sub>2</sub> .....	sulfur dioxide
TCEQ .....	Texas Commission on Environmental Quality
TSP .....	total suspended particulate
TVP .....	true vapor pressure
U.S.C. ....	United States Code
VOC .....	volatile organic compound